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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,859	11/06/2006	Lutz Rauchfuss	10191/4323	2613
26646 KENYON & F	7590 11/07/200 KENYON LLP	8	EXAM	UNER
ONE BROADWAY			WILLIAMS, ARUN C	
NEW YORK,	NY 10004		ART UNIT	PAPER NUMBER
			2838	
			MAIL DATE	DELIVERY MODE
			11/07/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/552.859 RAUCHFUSS, LUTZ Office Action Summary

Office Action Summary	Examiner	Art Unit	I				
	ARUN WILLIAMS	2838	1				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of times may be available under the provisions of 37 CFR 1.15 and the CSX (5) MONTH's from the making date of this communication. Failure to reply within the sort or standed period for reply will by statute. Any reply received by the Office later than three months after the mailing agency facility that the common start that the com	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,				
Status							
1) Responsive to communication(s) filed on 06 No	ovember 2006.						
2a) This action is FINAL. 2b) ☐ This	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>8-17</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) 8-17 is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examine							
10)							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
		, n					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☑ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	•	o in this National	Stage				
		d					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P						
Paper No(s)/Mail Date 10/11/2005.	6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 8,10,11,13-15, and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Plett. USPAT6.534,954.

As for claims 8,11,13,14,15, and 16 Plett discloses a method for detecting acid stratification in a battery, comprising: determining a first state of charge value during a load period of the battery on the basis of an estimated open-circuit voltage; determining a second state of charge (predicted estimation by Kalman filter) value during a rest period of the battery following the load period on the basis of a measured open-circuit voltage; comparing the first state of charge value to the second state of charge value; and detecting acid stratification when a defined deviation (uncertainty) of the first state of charge value from the second state of charge value is exceeded. (cols.6-7)

As for claim10, Plett discloses determining the estimated open-circuit voltage via an observation device, the observation device including a Kalman filter, the Kalman filter estimating the open-circuit voltage on the basis of a measured battery voltage. (col. 6)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action: Application/Control Number: 10/552.859

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 9,12, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Plett in view of Kadouchi et al.(Kadouchi), US2003/0146737

As for claims 12 and 17, Plett differs from the claimed invention because he does not explicitly disclose increasing a charging voltage for charging the battery when the defined deviation of the first state of charge value from the second state of charge value is exceeded.

Kadouchi discloses increasing a charging voltage for charging the battery when the defined deviation of the first state of charge value from the second state of charge value is exceeded (par.[0052])

Kadouchi is evidence that ordinary skill in the art would find a reason, suggestion or motivation to increase a charging voltage for charging the battery when the defined deviation of the first state of charge value from the second state of charge value is exceeded.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the gaming device of Loose by increasing a charging voltage for charging the battery when the defined deviation of the first state of charge value from the second state of charge value is exceeded for advantages such as providing the ability to equalize a battery (par.[0047]), as taught by Kadouchi.

As for claim 9, Plett discloses the claimed invention except for the deviation is defined as >20%. It would have been obvious to one having ordinary skill in the art at the time of the invention was made for the deviation is defined as >20%, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARUN WILLIAMS whose telephone number is (571)272-9765. The examiner can normally be reached on Mon - Thurs, 6:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Akm Ullah can be reached on 571-272-23612361. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Akm Enayet Ullah/ Supervisory Patent Examiner, Art Unit 2838 Arun Williams Examiner Art Unit 2838

/A. W./ Examiner, Art Unit 2838